- 1. A NO_x removing composition for use as a translucent coating on construction material surface, comprising at least:
 - a) photocatalytic titanium dioxide particles having at least a de-NO_x activity,
 - b) particles having a de-HNO₃ activity, and
- c) a silicon based-material in which said particles are dispersed, wherein said photocatalytic particles have a crystalline size ranging from 1 to 50 nm and particles of a) and b) being present in an amount lower than 20% by weight of the total weight of said composition.
- 2. The composition according to claim 1, wherein photocatalytic particles include at least anatase form of titanium oxide, rutile form of titanium oxide or a mixture thereof.
- 3. The composition according to anyone of claims 3 to 4, wherein the titanium dioxide particles are predominantly the anatase crystalline form.
- 4. The composition according to claim 3, wherein the crystalline titanium dioxide particles exhibit a mean size from 1 to 50 nm, in particular from 2 to 30 nm, more particularly from 5 to 20 nm.
- 5. The composition according to anyone of claims 1 to 4, wherein the 20 photocatalytic particles have a surface area per gram higher than 30 m²/g.
 - 6. The composition according to anyone of claims 1 to 5, wherein the photocatalytic particles are present in an amount of 0.1 to 15%, preferably 1 to 12%, and most preferably 2 to 10% by weight (expressed in dry matter) of the total weight of said composition.
 - 7. The composition according to anyone of claims 1 to 6, wherein de-HNO₃ particles include basic compounds.
 - 8. The composition according to claim 7, wherein de- HNO₃ particles include calcium carbonate, zinc carbonate or a mixture thereof.
- 9. The composition according to claim 8, wherein the de-HNO₃ particles are present in an amount of 0.05 to 15%, in particular of 0.1 to 1% by weight of the total weight of said composition.

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- 10. The composition according to anyone of claims 1 to 9, wherein it includes photocatalytic titanium dioxide and de-HNO₃ particles in a ratio de-HNO₃ particles/titanium dioxide particles ranging from 0.05 to 1.2, in particular from 0.1 to 1, and more particularly from 0.2 to 0.8.
- 11. The composition according to anyone of claims 1 to 10, wherein the silicon based-material provides a polysiloxane film.
- 12. The composition according to anyone of claims 1 to 11, wherein the silicon based-material includes at least a polysiloxane polymer.
- 13. The composition according to anyone of claims 1 to 12 including furthermore a solvent.
 - 14. A method for imparting self-cleaning properties towards atmospheric contaminants to the surface of a material, said method comprising at least the steps of:
 - applying a composition according to anyone of claims 1 to 13 onto the surface of a material, and
- drying or curing the composition to obtain a transparent coating thereon.

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